

**Amendments to the Abstract of the Disclosure:**

Please replace the Abstract with the following amended paragraph:

A ~~In~~ a system for wireless communication having a region for asynchronous information transmission and a region for information transmission ~~using~~. The system uses channel time allocation ~~for storing data is stored in a buffer for data transmission~~ buffer and initially transmitting information ~~transmission is performed initially via asynchronous communication. and then, if the~~ When an amount of data stored in the buffer exceeds a predetermined value, the system transmits information via channel time allocation communication. ~~The predetermined value is obtained by dividing the overall bandwidth of the asynchronous communication information region by the a number of wireless communication stations forming a network. If there is~~ When no data is stored in the buffer during channel time allocation communication, the an allocated channel time is released.

**Amendments to the Specification:**

Please replace the paragraph beginning on page 11 line 25 with the following amended paragraph:

In the asynchronous access region, asynchronous wireless communication in a ~~content~~ contention access period (CAP) may be performed. In the channel-time-allocation access region, channel time allocation communication in a ~~content~~ contention free period (CFP) may be performed.

Please replace the paragraph beginning on page 26 line 2 with the following amended paragraph:

When the wireless communication device 300 transmits information, first, wireless-transmission information is received from various electronic devices connected thereto via the interface ~~311~~ 301, and is stored in the wireless-transmission buffer 302. The stored information is divided into packets in predetermined transmission units by the packet processor 303. The packets are sent to the asynchronous access controller 304 to perform predetermined processing for asynchronous communication on a wireless transmission channel, and are then wirelessly transmitted from the antenna 305.

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A system for wireless communication having an asynchronous access region and a channel-time-allocation access region,  
~~wherein comprising means for initiating information communication is initiated in the asynchronous access region and[[,]] for allocating channel time in excess of a predetermined transmission capacity, channel time is allocated.~~

Claim 2 (currently amended): A system for wireless communication having an asynchronous access region and a channel-time-allocation access region,  
~~wherein, comprising means for releasing channel time below a predetermined transmission capacity during a channel time allocation communication, channel time is released.~~

Claim 3 (currently amended): A wireless communication device for ~~performing~~ allocating frame-based channel time allocation within a wireless network, ~~in which performing~~ wireless communication having, using an asynchronous access region and a channel-time-allocation access region, ~~is performed~~ at a predetermined frame period between the wireless communication ~~devices~~ device and another wireless communication device, said wireless communication device comprising:

request receiving means for receiving at least one of a channel time allocation request and a channel time release request from the another wireless communication device in the wireless network; and

frame setting means for setting the asynchronous access region and the channel-time-allocation access region ~~in~~ during the predetermined frame period ~~according to~~ using the received at least one of the channel time allocation request and the channel time release request.

Claim 4 (currently amended): A wireless communication method of performing frame-based channel time allocation within a wireless network ~~in which, performing~~ having, using an asynchronous access region and a channel-time-allocation access region ~~is performed,~~ at a predetermined frame period between ~~a wireless communication devices device and~~ another wireless communication device, said wireless communication method comprising:

a request receiving step of receiving at least one of a channel time allocation request and a channel time release request from ~~[[a]] the another~~ wireless communication device in the wireless network; and

a frame setting step of setting the asynchronous access region and the channel-time-allocation access region ~~in during~~ the predetermined frame period according to using the received at least one of the channel time allocation request and the channel time release request.

Claim 5 (currently amended): A wireless communication device operating in a wireless network ~~in which, performing~~ having, using an asynchronous access region and a channel-time-allocation access region ~~is performed,~~ at a predetermined frame period ~~under the management of,~~ managed by a control station, said wireless communication device comprising:

asynchronous access control means for transmitting information in the asynchronous access region;

channel time allocation communication control means for transmitting information using channel time allocated in the channel-time-allocation access region;

transmission information storing means for storing transmission information;

transmission capacity determining means for determining ~~the~~ an amount of information transmittable in the asynchronous access region; and

channel time request means for sending a channel time allocation request or a channel time release request to the control station ~~according to a result of comparison between the~~ after comparing an amount of information stored in the transmission information storing means and the amount of information determined by the transmission capacity determining means.

Claim 6 (currently amended): ~~[[A]]~~ The wireless communication device according to claim 5, wherein the transmission capacity determining means determines the amount of information transmittable in the asynchronous access region by dividing ~~the~~ an overall bandwidth of the asynchronous access region by ~~the~~ a number of wireless communication devices forming the wireless network.

Claim 7 (currently amended): ~~[[A]]~~ The wireless communication device according to claim 5, wherein the channel time request means sends the channel time allocation request to the control station when the amount of information stored in the transmission information storing means exceeds the amount of information determined by the transmission capacity determining means ~~during transmission of~~ while the channel time allocation communication control means is transmitting the information in the asynchronous access region performed by the asynchronous access control means.

Claim 8 (currently amended): ~~[[A]]~~ The wireless communication device according to claim 5, wherein the channel time request means sends the channel time release request to the control station when the amount of information stored in the transmission information storing means is below the amount of information determined by the transmission capacity determining means ~~during transmission of~~ while the channel time allocation communication control means is transmitting the information in the channel-time-allocation access region performed by the channel time allocation communication control means.

Claim 9 (currently amended): A wireless communication method of performing wireless communication having an asynchronous access region and a channel-time-allocation access region at a predetermined frame period ~~under the management of~~ managed by a control station in a wireless network, said wireless communication method comprising:

an asynchronous access control step of transmitting information in the asynchronous access region;

a channel time allocation communication control step of transmitting information using channel time allocated in the channel-time-allocation access region;

a transmission information storing step of storing transmission information;

a transmission capacity determining step of determining the an amount of information transmittable in the asynchronous access region; and

a channel time request step of sending a channel time allocation request or a channel time release request to the control station ~~according to a result of comparison between~~ after comparing the amount of information stored in the transmission information storing step and the amount of information determined in the transmission capacity determining step.

Claim 10 (currently amended): [[A]] The wireless communication method according to claim 9, wherein the transmission capacity determining step includes determining the amount of information transmittable in the asynchronous access region by dividing the an overall bandwidth of the asynchronous access region by the a number of wireless communication devices forming the wireless network to determine the amount of information transmittable in the asynchronous access region.

Claim 11 (currently amended): [[A]] The wireless communication method according to claim 9, wherein the channel time request step includes sending the channel time allocation request to the control station when the amount of information stored in the transmission information storing step exceeds the amount of information determined in the transmission capacity determining step during transmission of while the asynchronous access control step is transmitting the information in the asynchronous access region performed in the asynchronous access control step.

Claim 12 (currently amended): [[A]] The wireless communication method according to claim 9, wherein the channel time request step includes sending the channel time release request to the control station when the amount of information stored in the transmission information storing step is below the amount of information determined in the transmission capacity determining step during transmission of while the channel time allocation communication control step is transmitting the information in the channel-time-allocation access region performed in the channel time allocation communication control

step.

Claim 13 (currently amended): A computer program ~~described~~ in a computer-readable format for executing on a computer system a frame-based channel time allocation process within a wireless network ~~in which performing~~ wireless communication having, using an asynchronous access region and a channel-time-allocation access region ~~is performed~~, at a predetermined frame period between wireless communication devices, the computer program comprising:

a request receiving step of receiving at least one of a channel time allocation request and a channel time release request from a wireless communication device in the wireless network; and

a frame setting step of setting the asynchronous access region and the channel-time-allocation access region ~~in~~ during the predetermined frame period ~~according to~~ using the received at least one of the channel time allocation request and the channel time release request.

Claim 14 (currently amended): A computer program ~~described~~ in a computer-readable format, for executing, on a computer system, a process for performing wireless communication, having an asynchronous access region and a channel-time-allocation access region, at a predetermined frame period ~~under the management of~~ managed by a control station in a wireless network, the computer program comprising:

an asynchronous access control step of transmitting information in the asynchronous access region;

a channel time allocation communication control step of transmitting information using channel time allocated in the channel-time-allocation access region;

a transmission information storing step of storing transmission information;

a transmission capacity determining step of determining ~~the~~ an amount of information transmittable in the asynchronous access region; and

a channel time request step of sending a channel time allocation request or a channel time release request to the control station ~~according to a result of comparison between the~~ after comparing an amount of information stored in the transmission information storing step and the amount of

information determined in the transmission capacity determining step.

Claim 15 (currently amended): [[A]] The computer program according to claim 14, wherein the transmission capacity determining step includes dividing ~~the~~ an overall bandwidth of the asynchronous access region by ~~the~~ a number of wireless communication devices forming the wireless network ~~to determine~~ determining the amount of information transmittable in the asynchronous access region.

Claim 16 (currently amended): [[A]] The computer program according to claim 14, wherein the channel time request step includes sending the channel time allocation request to the control station when ~~the~~ an amount of information stored in the transmission information storing step exceeds the amount of information determined in the transmission capacity determining step ~~during transmission of~~ while the asynchronous access control step is transmitting the information in the asynchronous access region performed in the asynchronous access control step.

Claim 17 (currently amended): [[A]] The computer program according to claim 14, wherein the channel time request step includes sending the channel time release request to the control station when ~~the~~ an amount of information stored in the transmission information storing step is below the amount of information determined in the transmission capacity determining step ~~during transmission of~~ while the channel time allocation communication control step is transmitting the information in the channel-time-allocation access region performed in the channel time allocation communication control step.



REMARKS

The Abstract of the disclosure has been amended hereby.

Two paragraphs in the specification have been amended hereby.

Claims 1-17 remain in the application and have been amended hereby.

As will be noted from the Declaration, Applicants are citizens and residents of Japan and this application originated there.

Accordingly, the amendments made to the specification are provided to place the application in idiomatic English, and the claims are amended to place them in better condition for examination.

An early and favorable examination on the merits is earnestly solicited.

Respectfully submitted,  
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